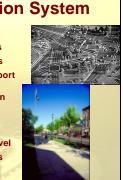
The Transportation/Land Use Link: The Smart Growth Alternative

Transportation Summit
Presented by:
Brad Strader, Partner-in-Charge
Langworthy, Strader, LeBlanc &
Associates, Inc.

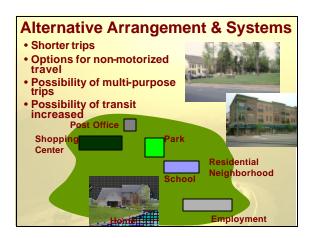


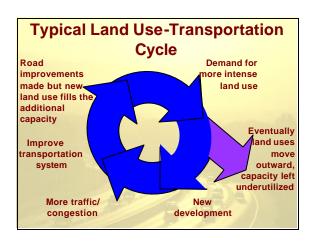
Many Land Use Decisions Affect the Transportation System

- 1. Land Use Arrangement
- · Mixed or isolated uses/densities
- Number & length of vehicle trips
- Densities to support or not support transit
- Consideration of road capacity in planning
- 2. Design Decisions
- Promotion of non-motorized travel
- Outdated road design standards
- Access control



Isolated Land Uses & No Mode Choices Low-Density cannot support transit No pathway system School Post Office Shopping Center Short, Single Purpose & Lengthy Trips by Automobile Only Park Employment





Typical Land Use Planning & Development Decisions in Michigan • Do not consider implications on the transportation system • Do not effectively involve MDOT, MPO's, road commissions, or adjacent communities • Constrained by law/case law • Public officials are unclear about their role & authority

ITE - Smart Growth Principles

Bring transportation need & development into better balance to create livable communities through:

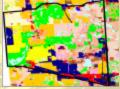
- Job/work force/housing balance
- Compact/complementary mix of land uses
- · Building upon existing infrastructure
- Economic viability
- Attractive design
- Environmental sensitivity
- Choices of travel modes
- · Fiscally sustainable over time



Smart Growth Land Use Policies

- Consider roadway capacity in land use planning
- · Arrange land uses to reduce trip lengths
- · Promote mixed uses to reduce # of trips
- Direct development to locations where road capacity exists or where roadway improvements are planned
- Density or nodes to support transit





Promote Community-Wide Long Range Land Use/Transportation Plans

- 1. Collaborative process-MPO, adjacent communities, multi-agency
- 2. Inventory existing conditions
- 3. Identify future conditions (including modeling)

Trans.



- 4. Evaluate alternatives & recommendations
 - Land use changes, patterns & intensity
 - . Transportation improvements
 - Public input
 - . Cost/funding



Corridor Management Plans & Committees

- Corridor-wide approach to major development proposals
- Coordinate access reviews, R.O.W issues & improvement
- Promote unified design
- Increase funding opportunities
- Models: East Beltline, M-59 (Livingston Co.), M-11, West Oakland Corridor, MDOT Access Mngt. Projects, Orchard Lake Road Committee



Bypasses

- Many under consideration in Michigan
- Controversial & expensive
- Need often tied to land use decisions
- Impact depends upon land use & access controls along new route



Transit Friendly Design

- Density to support mass-transit
- Land use patterns
- Site Plan Review guidelines
- Pathways to adjoining sites
- Connections to bus stops





Non-Motorized Transportation-Walkable Communities

- Emphasize pedestrians
- Reduction of dependence on autos
- Give people places to walk & bike
- Links between residential areas
- Links to commercial areas, schools, recreational facilities
- Combined bike & pedestrian trails/paths



Street Connections

Educate officials on long-term implications of street connections versus numerous cul-de-sacs

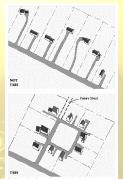


Traffic Impact Studies

- Promote Michigan's recommended practice
- · Train local officials & staff on use
- Use information to evaluate development proposals & determine improvements needed

Access Management - What is it?

- Cost effective, simple way to preserve capacity & reduce crashes
- Manages the number, location, spacing & design of access points, median crossovers & traffic signals along major roads



Right-of-Way Preservation

- Allows more funds for improvements/ maintenance
- · Avoid "takings"
- Expedites improvements
- Require with SLU's & PUD's
- Coordinate with Road Commission/MDOT
- Example: M-59 Widening Project in Livingston Co.
 - ROW Planned ROW

Density transferred to remainder of parcel

Context Sensitive Road Design



Traffic Calming Objectives When traditional methods do not work... • Retain neighborhood character • Slow vehicle speed • Discourage cut through traffic • Improve safety • Improve pedestrian environment

Transportation Planning Roadway Improvements Transportation System Planning Management Zoning Intelligent Urban Design **Transportation Systems** Mixed Use Access Management Transit Non-motorized **DEMAND MANAGEMENT** Alternative Work •Alternative •Employer Support **Schedules** Modes **Programs**